Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS I PORTING A GENE ASSOCIATED WITH A DETE Inventors: Nicholas SCHOR Assignee: Genset Corporation:

Our Ref.: 55.US4.DIV

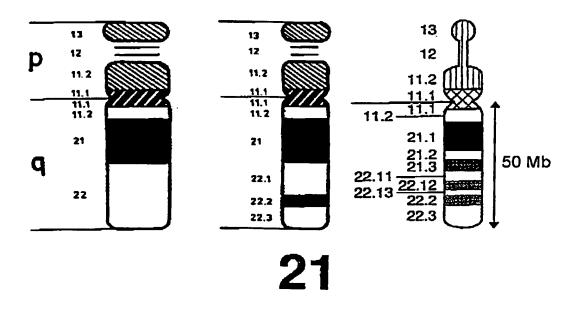


Figure 1

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HAT UNG A GENE ASSOCIATED WITH A DETECT Inventors: Nicholas SCHORK,

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV
2/31

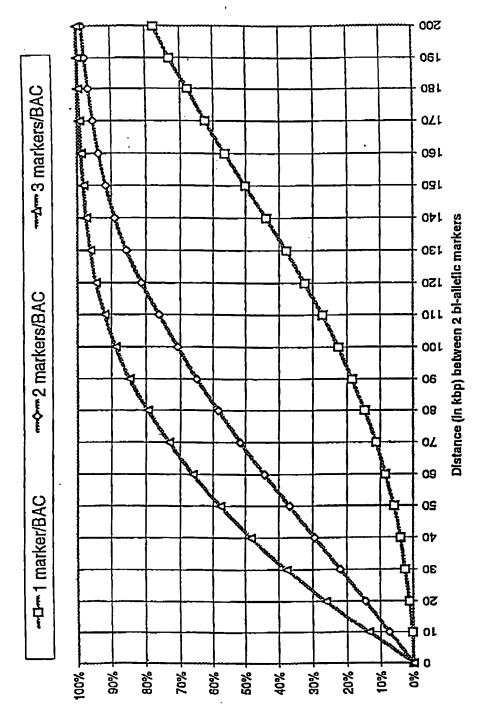
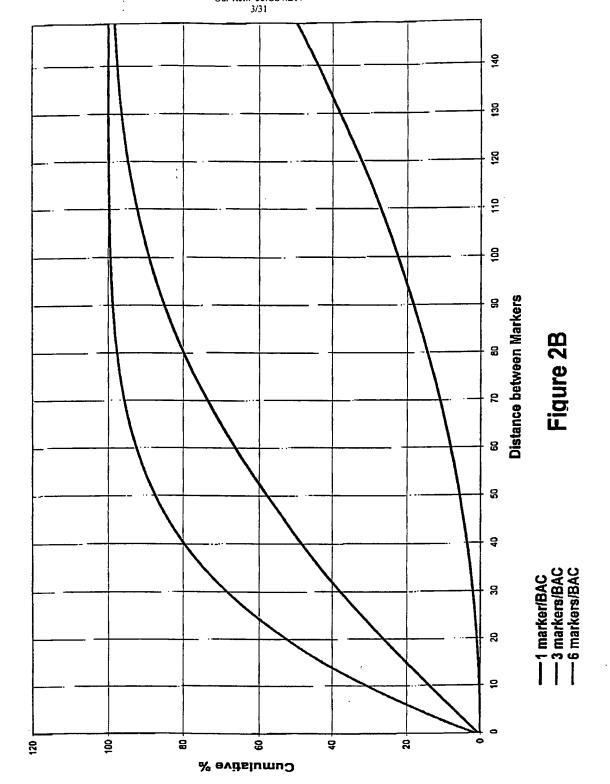


Figure 2A

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRANSING A Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV

3/31

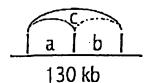


Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTA Inventors: Nicholas SCHORK,

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV

LD in a random French caucasian population

- 54 sized « random » BACs covering 8100 kb
- 213 SNP; 2 to 6 / BAC, mean allele frequency = 0.3
- Order and distance unknown
- For 1 BAC:



* \overline{m} intermarker distance : 130/3 = 43 kb

* \overline{m} LD strength estimate : m (a,b,c) = 0.51

• For 54 BACs:

* \overline{m} intermarker distance = 38 kb

* \overline{m} LD strength estimate = 0.63 ± 0.05 (324 pairs)

• For 19 unlinked SNPs: m LD strength estimate = 0.12 ± 0.007 (171 pairs)

Figure 2c

Title: METHODS, SOFTWARE AND APPA IDENTIFYING GENOMIC REGIONS HARL GENE ASSOCIATED WITH A DETECTABLE Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV 5/31

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# non aff A pAi A pAi A pAi A pAi	160 pAi non aff 0,05 0,15 0,15 0,25	8,77E-05 1,91E-08 3,06E-12 3,22E-16	0,06407752 0,00060364 1,3319E-06 9,1413E-10	0,1 0,2 0,3 0,4 0,5 0,06407752 0,14252002 0,19106311 0,21543442 0,22009395 0,00060364 0,00467774 0,01023571 0,01382303 0,01382303 1,3319E-06 3,8827E-05 0,0001478 0,0002343 0,00020218 9,1413E-10 9,0305E-08 5,733E-07 9,8336E-07 5,733E-07 2,2614E-13 6,2679E-11 5,873E-10 8,7113E-10 2,5396E-10	0,19106311 0,01023571 0,0001478 5,733E-07 5,873E-10	0,3 0,4 ,19106311 0,21543442 ,01023571 0,01382303 0,0001478 0,0002343 5,733E-07 9,8336E-07 5,873E-10 8,7113E-10	0,52009395 0,01382303 0,00020218 5,733E-07 2,5396E-10
	6,0	7,82E-25	2,152E-17	1,3261E-14	1,3261E-14 1,5189E-13	1,5189E-13	1,3261E-14
	0,35	1,62E-29	7,9823E-22		9,1669E-18	8,4152E-19 9,1669E-18 4,2713E-18	5,5844E-20
	0,4	1,73E-34	1,1282E-26	l	1,524E-23 1,1488E-22	1,524E-23	1,1282E-26

#aff	200						
# non aff	200						
	pAi non aff	0	0,1	0,2	6,0	0,4	6,0
∆ pAi	90'0	5,92E-06	0,03250945 0,09039173 0,13111935 0,15260313 0,15678006	0,09039173	0,13111935	0,15260313	0,15678006
Δ pAi	0,1	8,65E-11	7,4765E-05	7,4765E-05 0,00109084	0,00302686	0,00302686 0,00447365	0,00447365
Δ pAi	0,15	8,02E-16	2,3653E-08	2,0257E-06		1,1771E-05 2,1573E-05	1,7772E-05
∆ pAi	2'0	4,18E-21	1,5375E-12	6,7374E-10	7,764E-09	1,5417E-08	7,764E-09
∆ pAi	92'0	1,13E-26	2,525E-17	4,4025E-14	4,4025E-14 8,5532E-13	•	,4423E-12 2,8149E-13
∆ pAi	6'0	1,47E-32	1,1488E-22	5,8424E-19	1,4886E-17	1,4886E-17	5,8424E-19
∆ pAi	98'0	8,62E-39	1,4784E-28	1,5457E-24	3,6958E-23	1,3394E-23	4,197E-26
Δ pAi	0,4	2,09E-45	0,4 2,09E-45 5,2308E-35	7,6438E-31	1,1224E-29	1,1224E-29 7,6438E-31	5,2308E-35

affected individuals non affected Individuals #aff

allete frequency in non affected individuals % Difference in allete frequency between affected and non-affected individuals

non aff
pAI non aff
A pAI
Figure 3 (I)

Title: METHODS, SOFTWARE AND APPARIDENTIFYING GENOMIC REGIONS HAR GENE ASSOCIATED WITH A DETECTAL Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation
Our Ref.: 55.US4.DIV
6/31

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8E-13 0,00072323 C 1,07E-24 3,7948E-10 3,81E-37 1,0719E-18 (2,96E-50 5,0895E-29 4,27E-64 7,2043E-41 2,91E-94 8,8513E-69 8	
0 0,1 8E-13 0,00072323 C 1,07E-24 3,7948E-10 3,81E-37 1,0719E-18 3,296E-50 5,0895E-29 4,27E-64 7,2043E-41 2,91E-94 8,8513E-69 8	
8E-13 0,00072323 C 1,07E-24 3,7948E-10 2,96E-50 5,0895E-29 4,27E-64 7,2043E-41 8,7E-79 3,9328E-54 6,91E-94 8,8513E-69 8	0,3 0,4
1,07E-24 3,7948E-10 3,81E-37 1,0719E-18 4,27E-64 7,2043E-41 7,91E-94 8,8513E-69 8,951E-94 8,8513E-69 8	0,0169842 0,02371865 0,02516449
3,81E-37 1,0719E-18 2,96E-50 5,0895E-29 4,27E-64 7,2043E-41 2,91E-94 8,8513E-69 8	2,7579E-06 6,9679E-06 6,9679E-06
2,96E-50 5,0895E-29 4,27E-64 7,2043E-41 7 9,7E-79 3,9328E-54 6,91E-94 8,8513E-69 8	2 1,8601E-11 1,1611E-11
4,27E-64 7,2043E-41 7,7528E-33 1 9,7E-79 3,9328E-54 6,3017E-45 1, 2,91E-94 8,8513E-69 8,7879E-59 2,	1,6881E-22 6,9321E-20 3,7441E-19 6,9321E-20
9,7E-79 3,9328E-54 6,3017E-45 2,91E-94 8,8513E-69 8,7879E-59	29 4,3462E-29 7,6438E-31
2,91E-94 8,8513E-69 8,7879E-59	11 1,9429E-41 6,3017E-45
1 TOOR 1 TO TOOL 1 TALL THE	55 1,8839E-56 1,1206E-62
0,4 9,5E-111 /,/199E-85 1,8063E-74 1,4484E-71	71 1,8063E-74 7,7199E-85

#aff	150						
# non aff	850		İ				
	pAi non aff	0	0,1	0,2	6,0	0,4	6
Δ pAi	0,05	2,16E-20	0,00994614	0,04896055	0,08358651	0,10417953	0,11025423
Δ pAi	0,1	2,01E-39	5,571E-07	0,00010149	0,00058665	0,00119145	0,00139743
Δ pAi	0,15	1,11E-58	2,7555E-13	8,462E-09	2,9851E-07	1,2395E-06	1,6229E-06
Δ pAi	0,2	3,27E-78	2,1683E-21	3,2211E-14	1,1049E-11	1,111E-10	1,5638E-10
∆ pAi	0,25	4,96E-98	4,4952E-31	6,5226E-21	3,1015E-17	2,5169E-16	1,1763E-15
∆ pAi	6,0	3,7E-118	3,6987E-42	8,129E-29	6,9335E-24	5,4331E-22	6,5657E-22
Δ pAi	0,35	1,4E-138	1,6797E-54	7,1058E-38	1,2938E-31	2,9415E-29	2,5869E-29
Δ pAi	0,4	2,4E-159	5,4915E-68		2,1003E-40	4,8846E-48 2,1003E-40 1,3332E-37 6,8178E-38	6,8178E-3

affected individuals non affected individuals # non aff

aliele frequency in non affected individuals % Difference in allele frequency between affected and non-affected individuals pAi non aff

Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HING A GENE ASSOCIATED WITH A DETECTION INVESTIGATION OF REGIONS SCHORK.

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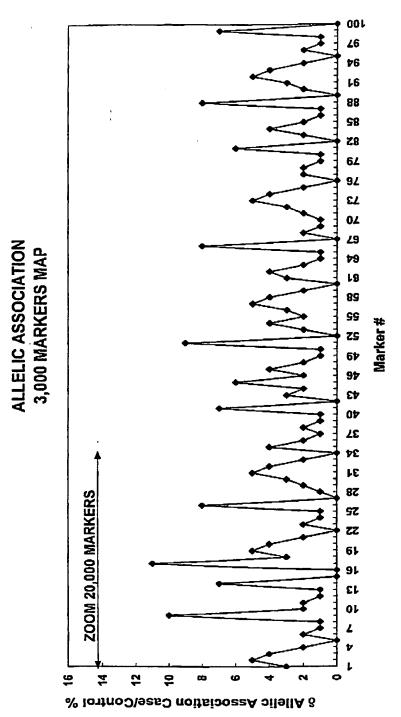
#aff	200						
# non aff	200						
	pAi non aff	0	1,0	0'5	6'0	0,4	0,5
Δ pAi	90'0	1,06E-12	0,00789803	0,03942584	0,06867566 0,08621572 0,0908370	0,08621572	0,09083704
∆ pAi	0,1	3,45E-24	4,4217E-07		5,6883E-05 0,00031976	0,0006363	0,00070881
Δ pAi	0,15	5,9E-36	4,3025E-13	1 1	3,3635E-09 9,2134E-08	3,319E-07	3,5871E-07
∆ pAi	0,2	4,73E-48	1,5566E-20	1,0346E-14	1,0346E-14 1,7218E-12 1,1512E-11 1,0047E-11	1,1512E-11	- 1,0047E-11
∆ pAi	0,25	1,67E-60	3,5436E-29		2,0473E-21 2,2178E-18	1,1498E-17	1,3524E-17
∆ pAi	6'0	2,46E-73	7,2498E-39	3,0748E-29	2,0601E-25	2,0601E-25 3,4525E-24	7,4807E-25
Δ pAi	0,35	1,44E-86	1,6945E-49	3,9559E-38	1,4118E-33	2,662E-32	1,4118E-33
∆ pAi	0,4	3,2E-100	5,3051E-61	4,7325E-48	4,7325E-48 7,1282E-43	1,0691E-41	7,2652E-44

#aff	200						
# non aff	1000				;		
	pAi non aff	0	0,1	0,2	6,0	0,4	0,5
∆ pAi	0,05	6,48E-24	5,7827E-05	0,00172627	0,00551541	0,00882876	0,00978249
Δ pAi	0,1	6,53E-47	3,065E-14	1,0301E-09	4,3205E-08	1,8833E-07	2,2731E-07
∆ pAi	0,15	1,2E-70	2,0716E-27	3,7441E-19	4,6626E-16	6,9719E-15	6,9719E-15
∆ pAi	0,2	3,33E-95	1,1636E-43	1,6614E-31	8,5632E-27	4,1421E-25	1,9885E-25
∆ pAi	92'0	1,2E-120	1,7683E-62	1,5329E-46		3,1722E-40 8,6765E-39	3,6071E-39
∆ pAi	6'0	5,3E-147	1,526E-83	4,2697E-64	2,5968E-56	3,9328E-54	2,5968E-56
∆ pAi	SE'0	2,4E-174	1,184E-108		4,5658E-84 4,7426E-75	4,2624E-73	4,0958E-77
∆ pAi	0,4	9,4E-203	1,082E-131	2,137E-106	1,8014E-96	2,137E-106 1,8014E-96 3,3252E-95	6,725E-102

affected individuals non affected individuals # non aff

allele frequency in non affected Individuals % Difference in allele frequency between affected and non-affected individuals pAi non aff ∆ pAi

Figure 3 (III)



Title: METHODS. SOFTWARE AND ATI FOR IDENTIFYING GENOMIC REGIONS HARDORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

Assignee: Genset Corporation
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Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

Assignee: Genset Corporation
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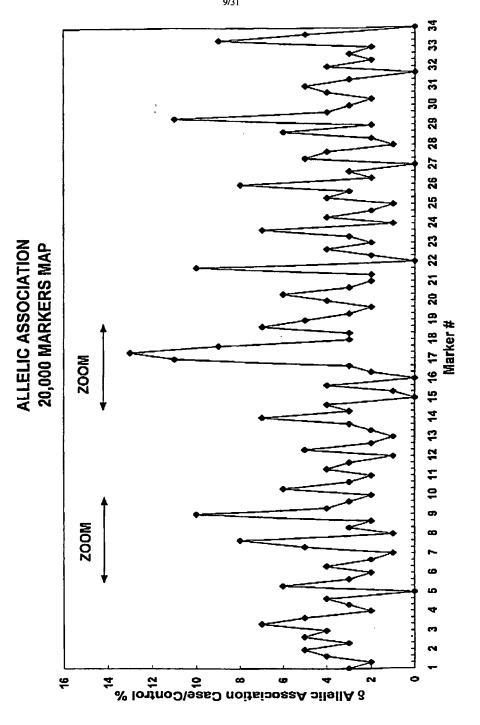
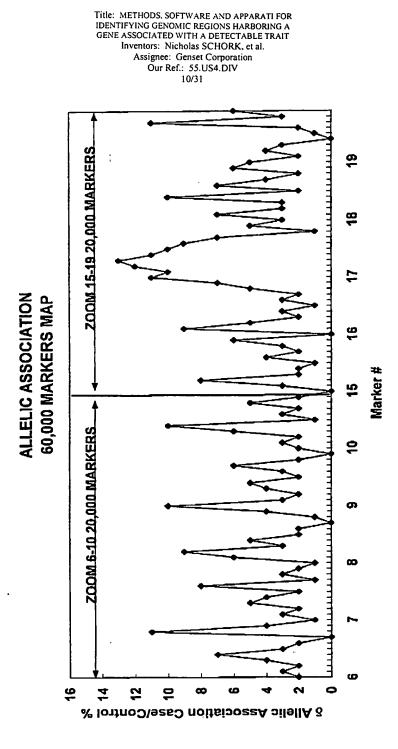


Figure 5





Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV

APO E REGION HAPLOTYPE FREQUENCY ANALYSIS

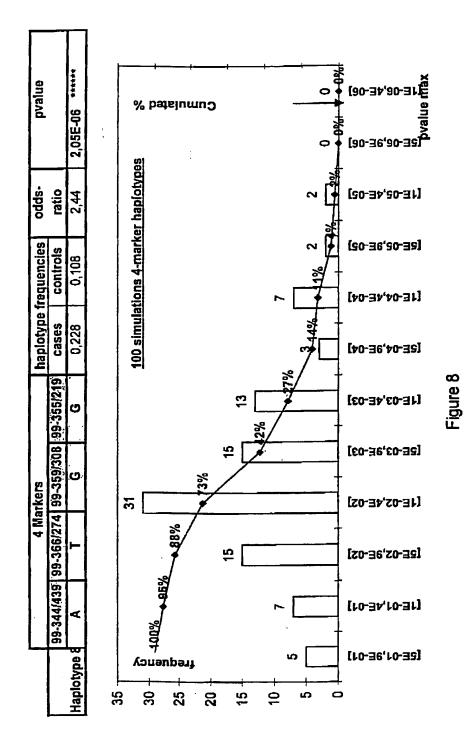
_	
CASES (225) AD CONTROLS (248)	
AD CASES (225)	
POPULATIONS	

P value		3,05E-03 ***	1,24E-01 *	2,83E-02 **	5,95E-02 **	1,64E-02 **	3,59E-01	4,76E-05 ****	2.05E-08 *****
-sppo	ratio	1,52	1,29	1,36	1,36	1,70	1,19	5,09	2,44
haplotype frequencies	controls	806,0	0,165	906'0	0,209	1,20,0	0,129	0,122	0,108
haplotype	cases	0,404	0,203	0,375	0,264	0,116	0,15	0,225	0,228
99-355	1,38E-01			တ		∢	∢	ဟ	ပ
99-359	6,63E-01		⋖	O	¥			G	<u>ග</u>
99-344	1,11E-01	၅	ပ			Ø			∢
99-366	3,01E-01	ပ			ပ		ပ	-	۲
markers	p value	haplotype 1	haplotype 2	haplotype 3	haplotype 4	haplotype 5	haplotype 6	haplotype 7	haplotype 8

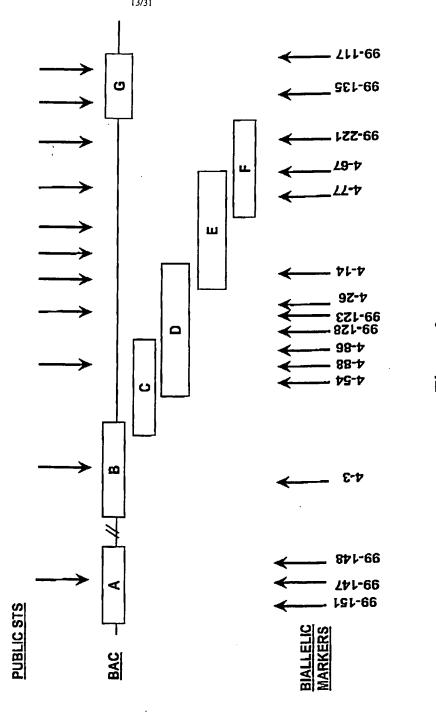
Title: METHODS, SOFTWARE AND A TIT FOR IDENTIFYING GENOMIC REGIONS I GENE ASSOCIATED WITH A DETECTION INVENTOR: Nicholas SCHORK, et al.

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APO E REGION HAPLOTYPE SIMULATION POPULATION: 225 CASES vs 248 CONTROLS



Title: METHODS. SOFTWARE AND APPARATION OF THE IDENTIFYING GENOMIC REGIONS HARE GENE ASSOCIATED WITH A DETECTAB Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation
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Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTIVE TRAIT Inventors: Nicholas SCHOT Assignee: Genset Corpor Our Ref.: 55.US4.DIV

PROSTATE CANCER ASSOCIATION STUDIES (FIRST SCREENING)

NON AFFECTED	CONTROLS=76	> 65 years	PSA<4
PROSTATE CANCER	CASES = 112	35 sporadic cases	+ 77 familial cases
Population	Sample size	Population	Characteristics

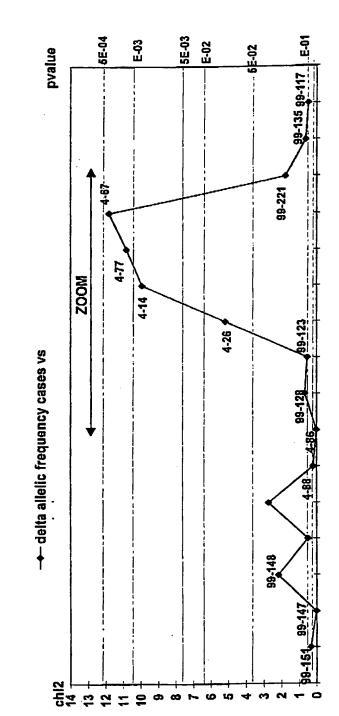
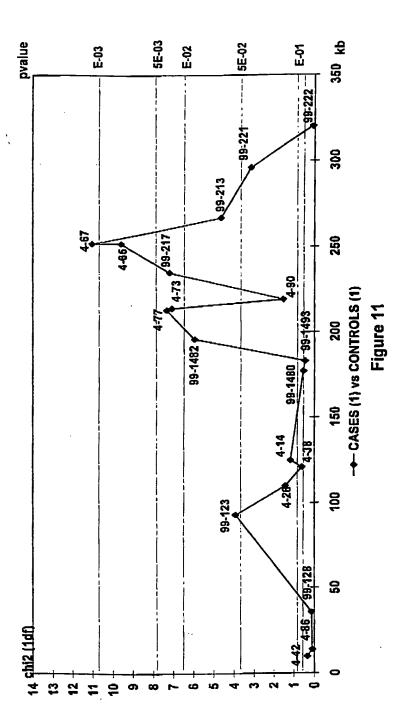


Figure 10

Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECT OF TRAIT Inventors: Nicholas SCHOR Assignee: Genset Corpora Our Ref.: 55.US4.DIV

PROSTATE CANCER ASSOCIATION STUDIES (ZOOM)

	PROSTATE CANCER	NON-AFFECTED
	CASES (185)	CONTROLS (104)
characteristics	47 sporadic cases	> 65 years
of populations	+ 138 familial cases	PSA<4



Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

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PROSTATE CANCER HAPLOTYPE FREQUENCY ANALYSIS

	PROSTATE CANCER	NON-AFFECTED
	CASES (281)	CONTROLS (130)
characteristics	143 sporadic cases	> 65 years
of populations	+ 138 familial cases	PSA<4

pvalue			***		S Marri		2 04484	5 40000	**** 9	4 4944	*** \$	**** 5	He \$	
3vq			9,00E-04	6,00E-05	1,00E-05	9,005-07	2,00E-05	2,00E-05	4,00E-05	2,00E-04	1,00E-04	3,00E-04	6,00E-04	
relative risk			4,42	6,46	6,78	10,06	5,17	4,78	2,33	2,17	2,32	2,01	2,05	
haplotype	frequencies	encles		0,018	0,016	0,019	0,013	0,025	0,027	0,109	0,134	0,112	0,148	0,129
hapi			Cases	0,075	0,095	0,116	0,117	0,117	0,117	0,222	0,251	0,226	0,256	0,233
99-135	80725812		2,00E-01	Ą	∢									
99-221			7,00E-01	¥	∢	∢	4	∢	∢					
99-213		*	9,00E-02 7,00E-01 2,00E-01	၁	ပ	ပ	ပ	ပ	ပ	ပ		ပ		ပ
4-67	B0463F01	^	6,00E-04	<u> </u> -	-	 	-	-	-	-	-	-	-	-
99-217		PG1		Ļ	_	-	-	-	-	-	-	 	-	
4.77			1,00E-01 1,00E-01 2,00E-02 2,00E-02	ဖ	G	တ	g	ഗ		ŋ	တ			
4-14	BO189E08		1,00E-01	ပ	ပ	ပ	ပ							
4-26	B018		1,00E-01	4	⋖	⋖								
99-123	H0287B09		2,00E-01	ပ										
markers	bacs	genes	p value	haplotype 8 >304kb<	haplotype 7 >286kb<	haplotype 6 <186kb>	haplotype 5 <171kb>	haplotype 4 <83kb>	haplotype 3.1 <54kb>	haplotype 3.2 <54kb>	haplotype 2.2 <39kb>	haplotype 2 <32kb>	haplotype 1.1 <17 kb>	haplotype 1.2 <15 kb>
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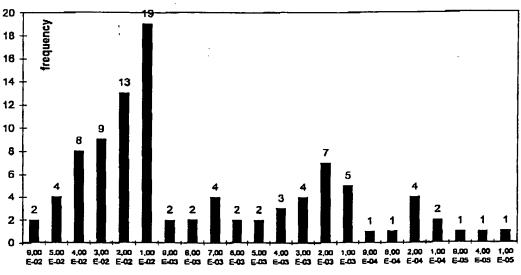
Figure 12

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS PRING A GENE ASSOCIATED WITH A DETECTION TRAIT Inventors: Nicholas SCHOR Assignee: Genset Corporation
Our Ref.: 55.US4.DIV

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PROSTATE CANCER HAPLOTYPE SIMULATIONS (100 ITERATIONS)

							haplotype f	requencies	relative	pvalue
markers	4-14	4-77	99-217	4-67	99-213	99-221	cases	controls	risk	
haplotype	С	G	T	T	G	Α	0,117	0,013	10,06	9,00E-07



pvalue max of haplotypes for 100 simulations

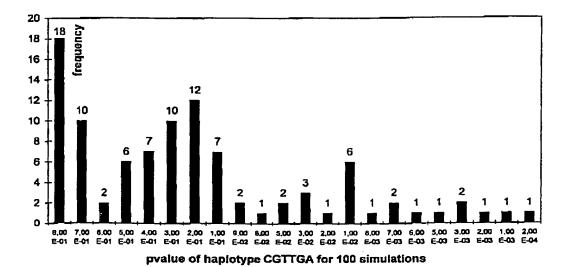


Figure 13

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTION OF THE TRAIT Inventors: Nicholas SCHO Assignee: Genset Corpor Our Ref.: 55.US4.DIV

AVERAGE LD PATTERN GENOMIC HETEROGENEITY

Recombination rate	Lower	Higher		
	A.	B		
Nb markers	89	69		
All SNP	0.61 (749)	0.42 (1190)		
Rare < 0.2 Rare vs rare	0.75 (65)	0.17 (158)		
Frequent > 0.2 Frequent vs frequent	0.51 (410)	0.49 (544)		
Rare vs frequent	0.72 (274)	0.41 (488)		

FIGURE 14

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECT:
Inventors: Nicholas SCHORK
Assignee: Genset Corporate
Our Ref.: 55.US4.DIV
19/31

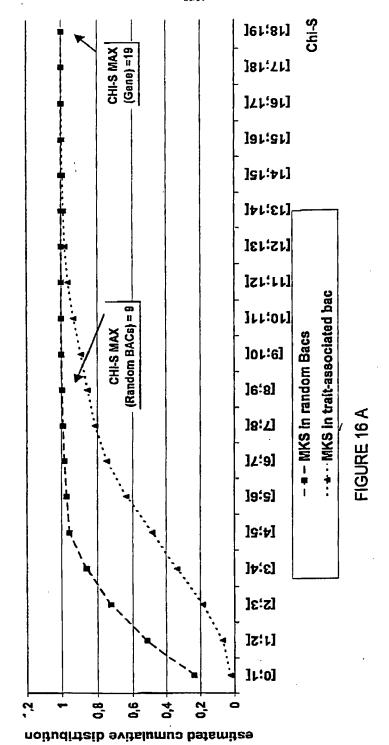
Exonic/nonexonic LD

	Nb pairs	Average intermarker distance	Average LD
Exonic SNPs	36	26 kb	0.65±0.021
Non exonic SNPs	60	36 kb	0.48±0.018
Exonic/Non exonic	96	32 kb	0.60±0.015

FIGURE 15

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHOR

Assignee: Genset Corpor Our Ref.: 55.US4.DIV 20/31



Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTION OF THE TRAIT Inventors: Nicholas SCHOLASsignee: Genset Corpor Our Ref.: 55.US4.DIV 21/31

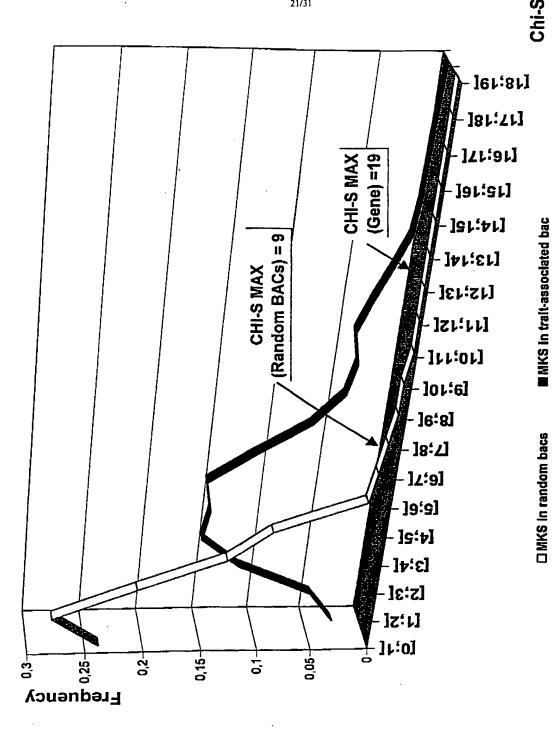
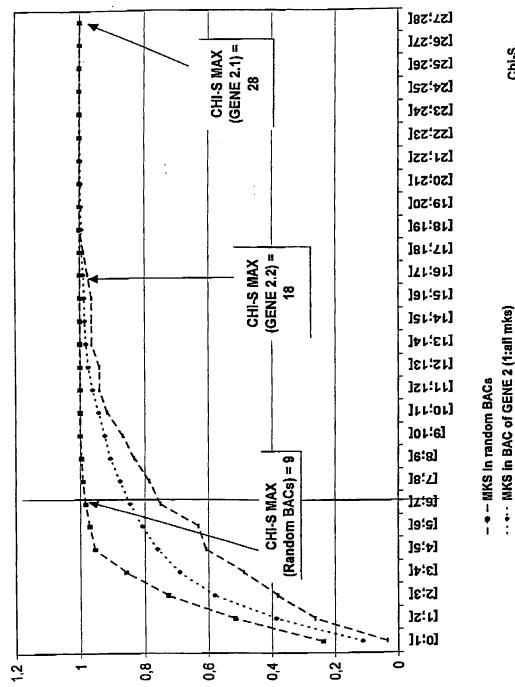


FIGURE 16B

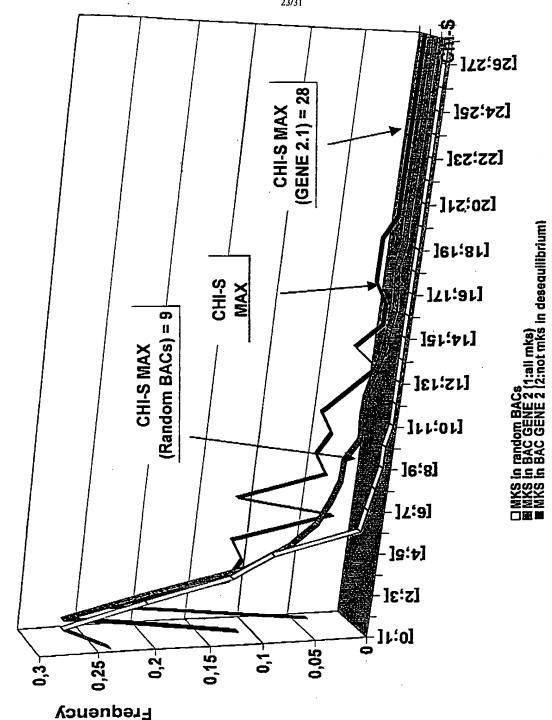
Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORUSES.

Assignee: Genset Corpor Our Ref.: 55.US4.DI



Estimated cumulative distribution function

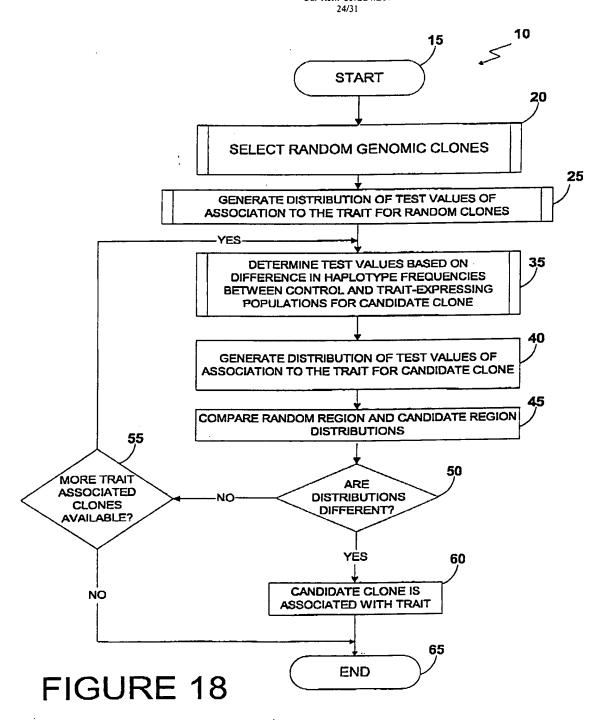
--- MKS in BAC of GENE 2 (2: mks not desequilibrium)

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECT OF TRAIT Inventors: Nicholas SCHORI Assignee: Genset Corporation of the


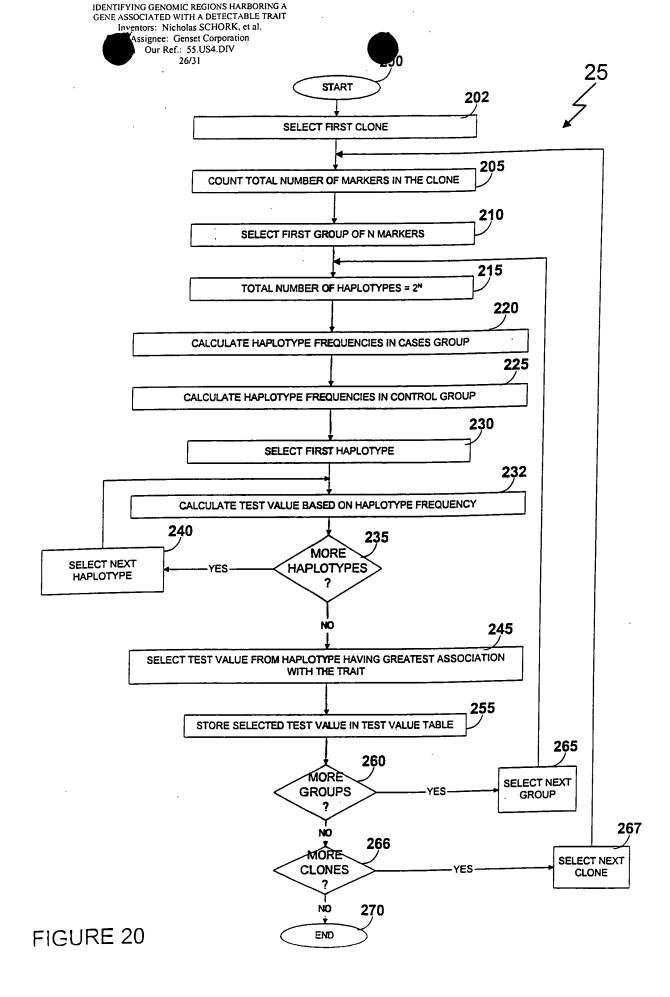
G 77 BG 17 B

Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMY GIONS HARBORING A GENE ASSOCIATED W DETECTABLE TRAIT Inventors: Nich CHORK, et al.

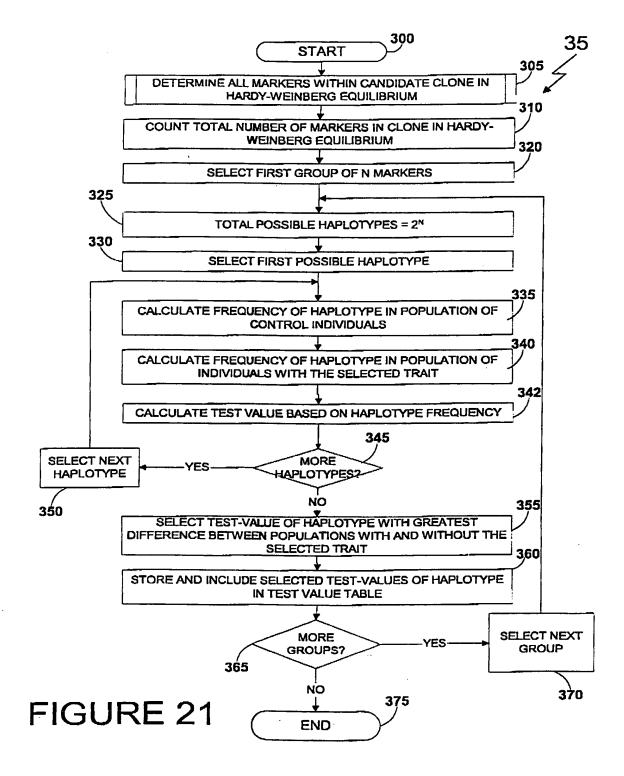
Assignee: Genset Corporation
Our Ref.: 55.US4.DIV



Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE. Inventors: Nicholas SCHORK Assignee: Genset Corporati Our Ref.: 55.US4.DIV 25/31 100 START 110 SELECT DATA CORRESPONDING TO THE FIRST RANDOM CLONE -NO-120 115 SELECT MORE NEXT NO THAN THREE MARKERS RANDOM IN CLONE? CLONE 125 YES **IDENTIFY MARKERS IN** HARDY-WEINBERG **EQUILIBRIUM IN BOTH POPULATIONS** 127 ARE AT LEAST 3 NO MARKERS IN HARDY-WEINBERG **EQUILIBRIUM?** YES 135 STORE SELECTED RANDOM **CLONE IN TABLE** 140 MORE YES **RANDOM** CLONES? NO 150 FIGURE 19 END



IDENTIFYING GENOMIC REGIONS HARBORING A
GENE ASSOCIATED WITH A DETECTABLE TRAIT
Inventors: Nicholas SCHOP* et al.
Assignee: Genset Corr
Our Ref.: 55.US4.



Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIO ARBORING A GENE ASSOCIATED WITH A DIRECT REGION OF THE ARBORING A BLE TRAIT Inventors: Nicholas SC., et al.

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV
28/31

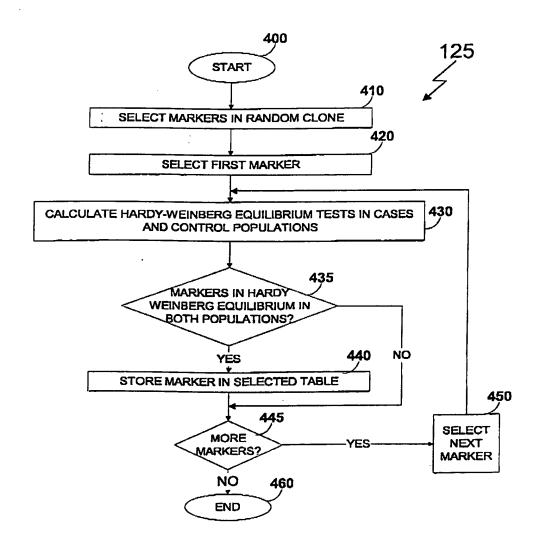


FIGURE 22

Title: METHODS, SOFTWARE AND AL I FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV

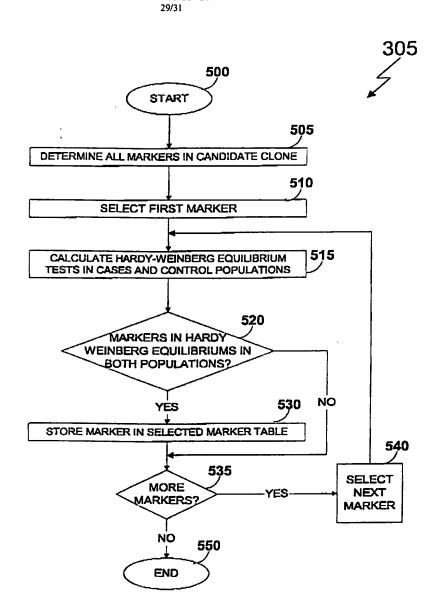


FIGURE 23

Title: METHODS, SOFTWARE AND APPARATION OF IDENTIFYING GENOMIC REGIONS HARBOGENE ASSOCIATED WITH A DETECTABLE Inventors: Nicholas SCHORK, et al.

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV
30/31

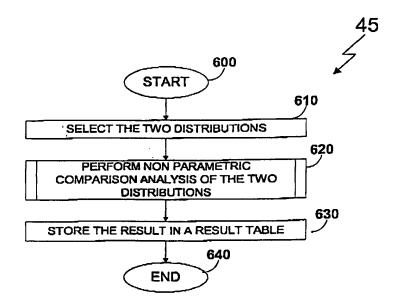


FIGURE 24

Title: METHODS OFTWARE AND APPARATI FOR IDENTIFYING ALL REGIONS HARBORING A TITH A DETECTABLE TRAIT holas SCHORK, et al.

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV

